

Student Performance Analysis using Python & Pandas

Name: Himanshu Roy

College: YBN UNIVERSITY

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Project Objective:

The goal of this project is to analyze a student performance dataset using Python and Pandas. It aims to understand how factors such as study time, parental education, and test preparation influence student grades.

Tools and Technologies Used:

- Python
- Pandas
- NumPy
- Matplotlib

Steps Involved:

1. Importing dataset using Pandas.
2. Cleaning and preprocessing the data.
3. Performing descriptive statistical analysis.
4. Visualizing patterns through graphs (e.g., marks vs study hours).
5. Drawing conclusions based on data insights.

Result and Conclusion:

The analysis helps in identifying key factors affecting student performance. Insights gained from the data can be used by teachers and parents to improve academic outcomes.